CS 6905 - Fall 2017

Software Engineering

Assignment #3 - Online Voting System

Submitted by:

Group: #4

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Due Date:

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Use Cases

- 1. Create election
- 2. Vote
- 3. Nominate for Election
- 4. Voter Research
- 5. Release results
- 6. Update Vote
- 7. Freeze Election
- 8. Update Documents
- 9. Update Voting Policy
- 10. Nominee Update Profile
- 11. Register
- 12. Login

In first iteration we will be implementing the following:

- 1. Create election
- 2. Vote
- 3. Nominate for Election
- 4. Update Vote
- 5. Update Voting Policy
- 6. Nominee Update Profile

We were able to do all these 6 use cases in addition to these we were able to do these use cases as well:

- 1. Register
- 2. Login

Code Compilation

Please run "npm run start" in the compiled zip file or the full zip file to run the NodeJS server. The server will automatically connect to the database in mlab.com. Everything given in the screenshots below works as expected.

Database connection: mongo ds141175.mlab.com:41175/cs6905 -u student voting system

If you run this in a command prompt and you have MongoDB installed, this will connect to the database at mlab.com and you will be able to see all the records there.

Database Schema:

User Collection Schema

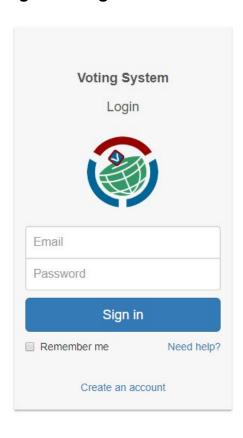
```
"id": 1234567890,
    "email": "dummy@test.ca",
    "name": "Test User",
    "phone": "+1-322-555-5555",
    "address": "123 st street",
    "password": "$#2a#3asfdfdsfdsfdfsdfdsfdfs",
    "role": "electionOfficer",
    "securityQuestions": [
            "question": "when were you born?",
            "answer": "Jan 1 1900"
        }
    ],
    "isVerified": true,
    "isEnabled": true,
    "incorrectLoginTries": 4,
    "lastActiveAt": "Sat Apr 08 2017 14:58:21 GMT-0400 (Eastern Daylight Time)",
    "createdAt": "Sat Apr 08 2017 14:58:21 GMT-0400 (Eastern Daylight Time)",
    "modifiedAt": "Sat Apr 08 2017 14:58:21 GMT-0400 (Eastern Daylight Time)"
}
```

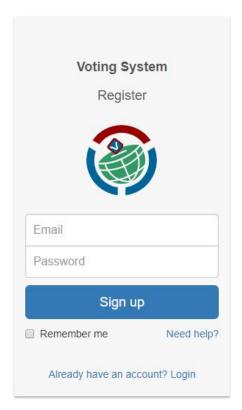
Election Collection Schema

```
" id": 213454,
"name": "Provincial Election - NL",
"winningStrategy": "Winner Takes All",
"dateFrom": "Thu Oct 13 2017 00:00:00 GMT-0230 (Newfoundland Daylight Time)",
"dateTo": "Thu Oct 31 2018 00:00:00 GMT-0230 (Newfoundland Daylight Time)",
"isDistrictElections": true,
"numberOfDistricts": 5,
"candidatesStrategy": "predefined",
"usersStrategy": "registeredUsers",
"userObjectConditions": "",
"candidates": [
        "candidateId": 234455,
        "numOfVotes": 123,
        "isApproved": false
],
"voters": [
        "voterId": 234455,
        "hasVoted": false,
        "votedFor": 3456634
]
```

Screenshots

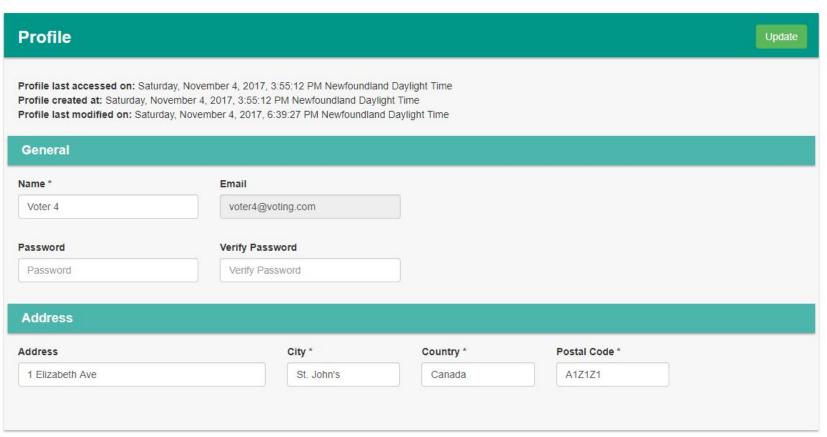
Login and Registration



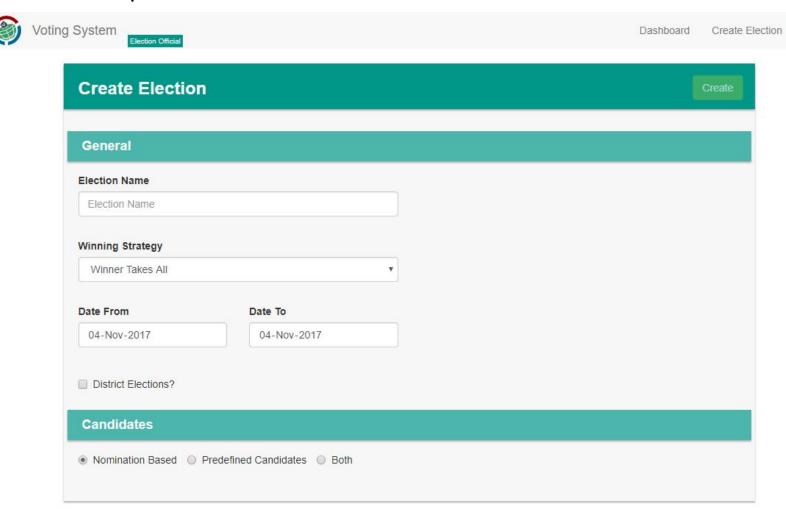


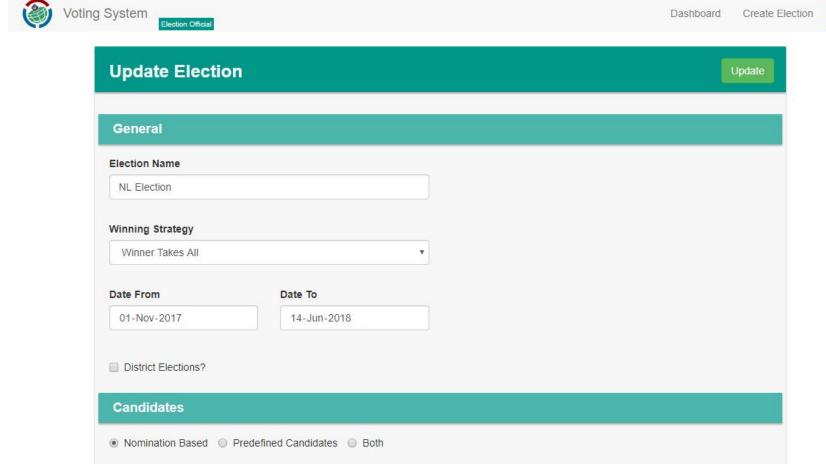


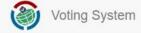




Election Official Perspective









Dashboard

Create Election



Current Elections



Future Elections









Election Official

Dashboard

Create Election



Election Details General Name: NL Election Winning Strategy: winnerTakesAll From: Nov 1, 2017 To: Jun 14, 2018 District Elections? false **Candidates** Candidate Strategy? nomination Number of Users Voted: 4 **Current Candidates** Approval Vote * Name Email Vote Candidate 1 candidate1@voting.com approved Candidate 2 candidate2@voting.com Vote approved Candidate 3 candidate3@voting.com approved Vote Candidate 4 Reject candidate4@voting.com pending Candidate 5 candidate5@voting.com Approve Reject pending Candidate 6 candidate6@voting.com rejected * Candidate needs to be approved before vote can be casted to that candidate. Nomination Name Email

Voter Perspective







Current Elections

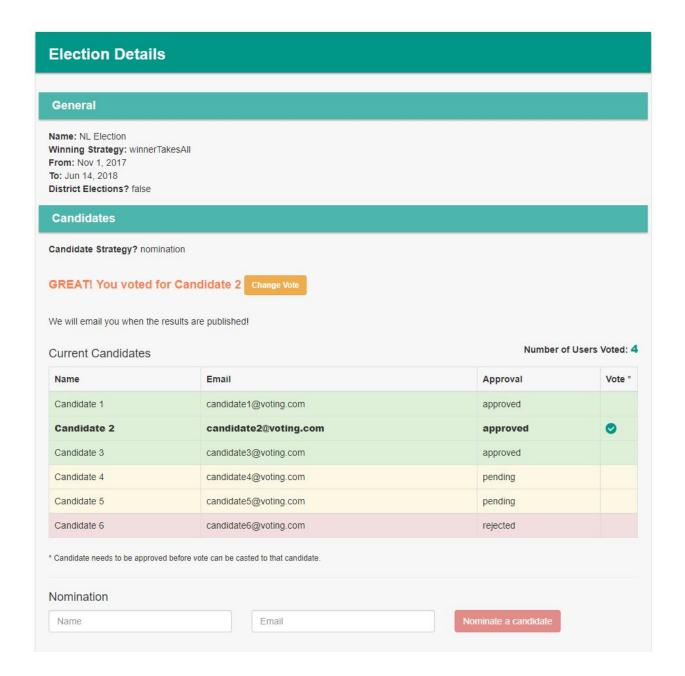
Winning Strategy winnerTakesAll Candidates strategy nomination Nov 1, 2017 --- Jun 14, 2018

Future Elections

Winning Strategy proportional Candidates strategy predefined Nov 26, 2017 --- Nov 30, 2017

Winning Strategy winnerTakesAll Candidates strategy nomination Jan 10, 2018 --- Mar 20, 2018





URLs

Github URL

https://github.com/harisbarki/CS6905-Online-Voting